

Safety Data Sheet (SDS)**AU-358 LTV**

ADJUVANTS UNLIMITED, LLC

Reference No.:
MSDS Revision Date:922150
3/20/2014**1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product Identity

AU-358 LTV

Reference No.

922150

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use

See Technical Data Sheet.

Application Method

See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name

Adjuvants Unlimited, LLC
3633 Charles Page Blvd.
Tulsa, OK 74127

Emergency

CHEMTREC (USA)

(800)424-9300

24 hour Emergency Telephone No.

(800)424-9300

Poison Control Center

(800)222-1212

Customer Service

Adjuvants Unlimited, LLC

(918)583-1155

2. Hazard identification of the product**2.1. Classification of the substance or mixture**

Combustible Liq. H227

Combustible liquid

Acute Tox. 5;H313

May be harmful in contact with skin

Skin Irrit. 2;H315

Causes skin irritation.

Eye Irrit. 2;H319

Causes serious eye irritation.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

**Warning**

H313 May be harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H227 Combustible liquid

[Prevention]:

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking.

[Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P332+313 If skin irritation occurs: Get medical advice/attention.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P337+313 If eye irritation persists: Get medical advice / attention.

P361 +362 Remove / Take off immediately all contaminated clothing and wash before reuse.

P370+376 In case of fire: Stop leak if safe to do so.

[Storage]:

P403 +P235 Store in a well-ventilated space. Keep cool.

P233 Keep container tightly closed.

[Disposal]:

P501 Dispose of contents/container in accordance with local/national regulations.

3. Composition/information on ingredients

This product is labeled with the following GHS Classifications, as it contains substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations. This product is a proprietary blend and the ingredients and mixture percentages are being withheld as confidential business information.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Proprietary Blend of surfactants, coupling agents and solvent CAS Number: Proprietary	100%	Eye Irrit. 2;H319 Skin Irrit. 2;H315 Acute Tox. 5;H313 Combustible Liquid H227	[1][2]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

4. First aid measures

4.1. Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes

Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.

Skin

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview

Eyes

Causes serious eye irritation.

Skin

May be harmful in contact with skin. Causes skin irritation.

5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO², powder, water spray.

Do not use; water jet.

5.2. Special hazards arising from the substance or mixture

Can be dangerous when exposed to heat and flame. Vapors may concentrate in confined areas. Irritating or toxic substances may be emitted upon thermal decomposition. Thermal decomposition products may include oxides of carbon and nitrogen as well as smoke and fume.

5.3. Advice for fire-fighters

Evacuate area. Prevent contamination from run-off of adjacent areas, streams, drinking water and sewers. Do not flush down sewers or other drainage systems. Exposed firefighters must wear standard protective equipment and in enclosed areas self-contained breathing apparatus. Use water-spray to cool fire exposed surfaces and personnel. Product emulsifies in water.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove sources of ignition. In case of a major spill or spillage in a confined space: evacuate the area and check solvent vapor levels before re-entering.

6.2. Environmental precautions

Do not allow spills to enter drains or watercourses.

6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

7. Handling and storage

7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use. Destroy contaminated belts and shoes and other items that cannot be decontaminated. Keep away from excessive heat and flame.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in dry, well-ventilated area away from excessive heat and incompatibles. Store at ambient or lower temperature. Store out of direct sunlight. Keep containers tightly closed and upright when not in use. Protect containers against physical damage.

Incompatible materials: Strong Acids, Strong Bases, Strong Oxidizers

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

See Technical Data Sheet

8. Exposure controls and personal protection**8.1. Control parameters****Exposure**

Ingredients with established limits for exposure are listed below:

CAS No.	Ingestion	Source	Value
0000107-41-5	2-methylpentane-2,4-diol	OSHA	No Established Limit
		ACGIH	Ceiling: 25 ppm
		NIOSH	C 25 ppm (125 mg/m3)
0000111-76-2	2-Butoxy-ethanol	OSHA	TWA 50 ppm (240 mg/m3) [skin]
		ACGIH	TWA: 20 ppm Revised 2003,
		NIOSH	TWA 5 ppm (24 mg/m3) [skin]

Carcinogen Data

This product contains no ingredients suspected of or known to be a carcinogen under OSHA, NTP or IARC.

8.2. Exposure controls**Respiratory**

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes

Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids.

Skin

Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact.

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

No Data Available

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Clear Pale Yellow Liquid
Odor	Sweet
Odor threshold	Not Measured
pH (1% aqueous solution)	7 - 9
Melting point / freezing point (°C)	Not Measured
Initial boiling point and boiling range (°C)	No Established Limit(C) No Established Limit(F)
Flash Point	80 (C) 176 (F) Seta Closed Cup
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured
Vapor pressure (Pa)	Not Measured
Vapor Density	Heavier than air.
Specific Gravity @ 20 C	1.02-1.04
Solubility in Water	Not Measured
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature (°C)	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
VOC %	Not Measured

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

No hazardous reactions under normal handling conditions.

10.2. Chemical stability

Stable under normal handling conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions under normal storage and handling conditions.

10.4. Conditions to avoid

Extreme heat/open flame/ sparks and other sources of ignition.

10.5. Incompatible materials

Strong Acids, Strong Bases, Strong Oxidizers

10.6. Hazardous decomposition products

No hazardous decomposition products under normal storage and handling conditions.

11. Toxicological information

Acute toxicity

ATE (Acute Toxicity Estimate)

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapour LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr
Proprietary Blend	4,000.00, Rat - Category: 5	>5000.00, Rabbit - Category: NA	No data available	No data available

Item	Category	Hazard
Acute Toxicity (mouth)	---	Not Applicable
Acute Toxicity (skin)	5	May be harmful in contact with skin.
Acute Toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Eye damage/irritation	2	Causes serious eye irritation.
Sensitization (respiratory)	---	Not Applicable
Sensitization (skin)	---	Not Applicable
Germ toxicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive Toxicity	---	Not Applicable
Specific target organ systemic toxicity (single exposure)	---	Not Applicable
Specific target organ systemic Toxicity (repeated exposure)	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

This product is not expected to be toxic to the aquatic environment.

12.2. Persistence and degradability

No data available on this preparation.

12.3. Bioaccumulative potential

Bioaccumulation is not expected to be significant.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available

13. Disposal considerations**13.1. Waste treatment methods**

Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.

14. Transport information**14.1. UN number**

NA 1993

14.2. UN proper shipping name

NA 1993 Combustible Liquid, N.O.S. (contains ethylene glycol monobutyl ether)

14.3. Transport hazard class(es)

3

Regulated by DOT for Bulk Transport (greater than 119 gallons)

DOT (Domestic Surface Transportation)

DOT Proper Shipping Name NA 1993 Combustible Liquid, N.O.S (contains ethylene glycol monobutyl ether), 3 PG III

DOT Hazard Class 3

DOT Label 3

UN / NA Number NA 1993

DOT Packing Group III

CERCLA/DOT RQ Not Applicable

IMO / IMDG (Ocean Transportation)

IMDG Proper Shipping Name Not Applicable

IMDG Hazard Class Sub Class Not Regulated

IMDG Packing Group Not Applicable

IATA (Air)**Proper Shipping Name:**

Not Applicable

Hazard Class: Not Regulated

14.4. Environmental hazards

IMDG Marine Pollutant: no

14.5. Special precautions for user

Not Applicable

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

WHMIS Classification B3 D2B

US EPA Tier II Hazards

Fire: Yes

Sudden Release of Pressure: No

Reactive: No

Immediate (Acute): Yes

Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs (>.1%) :

(No Product Ingredients Listed)

EPCRA 302 Extremely Hazardous (>.1%) :

(No Product Ingredients Listed)

EPCRA 313 Toxic Chemicals (>.1%) :

2-Butoxy-ethanol

Proposition 65 - Carcinogens (>0.0%):

(No Product Ingredients Listed)

Proposition 65 - Developmental Toxins (>0.0%):

(No Product Ingredients Listed)

Proposition 65 - Female Repro Toxins (>0.0%):

(No Product Ingredients Listed)

Proposition 65 - Male Repro Toxins (>0.0%):

(No Product Ingredients Listed)

N.J. RTK Substances (>1%) :

2-Butoxy-ethanol

2-methylpentane-2,4-diol

Penn RTK Substances (>1%) :

2-Butoxy-ethanol

2-methylpentane-2,4-diol

16. Other information

DISCLAIMER: The information in this Safety Data Sheet is provided in good faith and believed to be accurate as of the date issued. It pertains only to the product as shipped by Adjuvants Unlimited, LLC. ADJUVANTS UNLIMITED, LLC makes no warranties, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. It is the responsibility of the recipient and/or user of the product to study this Safety Data Sheet and to understand the information contained herein and any hazards associated with the product. Regulatory requirements are subject to change and may differ by jurisdiction. Therefore, it is the responsibility of the recipient and/or user of the product to insure that its activities comply with all federal and state laws. Adjuvants Unlimited, LLC assumes no responsibility for injury to the recipient and/or user or to any third party, or for damage to property.

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